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₱Title: JP10050343A2: FLUORINE-CONTAINING SOLVENT FOR LITHIUM BATTERY

WITH HIGH SAFETY

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PROBLEM TO BE SOLVED: To enhance safety of an electrolytecontaining device and provide an electrolyte solution with viscosity and conductivity capable of being used even at low temperature by using a partially fluorinated aliphatic ether of the specified group as a solvent of an electrolyte system of a lithium secondary battery.

SOLUTION: An effective amount of at least one of partially fluorinated ether represented by formula I and/or at least one of partially fluorinated ether represented by formula II are/is added to an electrolyte system as a fluorine- containing solvent for a lithium battery with high safety. Formula I: RO-[(CH2)m]n-CF2-CFH-X, (R is a straight-chain alkyl group having 1 to 10 carbon atoms or a branched alkyl group having 3 to 10 carbon atoms, X is a perfluoroalkyl group having 1 to 6 carbon atoms allowed it to contain a fluorine atom, chlorine atom, or ether oxygen, m is an integer of 2-6, and n is an integer of I-8.) Formula II: X-CFH-CF2O-[(CH2)mO]n-CF2-CFH-X (X, m, and n are the same as the formula

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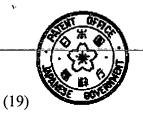




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(54) FLUORINE-CONTAINING SOLVENT FOR LITHIUM BATTERY WITH HIGH SAFETY

(57) Abstract:

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